QTY PART TITLE ITEM# PART# **HUB ASSY** RBW6405G04132-3G-1 -1 1 -4 1 RBW6405G04132-3G-4 FRAME ASSY D SEE PDFs FOR OLDER REVs TEMPLATE UPDATED PER DART HBY STANDARDS ITEM -1 CHANGED FOR ITEM -2 ITEM -1 ASSY ADDED ITEM -4 ASSY ADDED ITEM -13 CHANGED FOR ITEM -5 ITEM -5 CHANGED FOR ITEM -6 ITEM -9 CHANGED FOR ITEM -8 ITEM -11 REMOVED AND REPLACED BY McMaster#91131A071 ITEM -15 DOWEL PIN McMaster#98381A511 CHANGED FOR ITEM 9 McMaster#97395A474 McMaster#97395A474 ITEM 10 McMaster#91732A232 ADDED ITEM -3 MATERIAL WAS McMaster#92562A596 IS McMaster#92185A561, DIMENSION .121 CHANGED FOR 0.121 +0/-0.005, DIMENSION .722 CHANGED FOR .72, R0.008 MAX ADDED ITEM -2 DIMENSION .1874/.1869 CHANGED FOR .1875/.1867, DIMENSION 2.362 CHANGED FOR 2.362 +0.005/-0, R0.015 MAX ADDED, .03 X 45° CMF 2 PL ADDED, DIMENSION .08 X 45° 2PL CHANGED FOR 3 PL.DIMENSION 3.454 B.C CHANGED FOR 3.454 +/-0.001, DIMENSION 1/4-28 UNF 2A CHANGED FOR 1/4"-28 HELICOIL, MATERIAL WAS 6061 CLEAR ANODIZE IS 6061/7075 RED ANODIZE 19-580 ITEM -5 DIMENSION.514 CHANGED FOR .516, DIMENSION VM 1.4170/1.4164 CHANGED FOR 1.1250/1.1242, R0.008 MAX ADDED, DIMENSION 0.02 X 45° CMF ADDED, ENGRAVING "MADE IN USA" AND S/N REMOVED, DIMENSION .16 CHANGED FOR 0.157, DIMENSION .30 В CHANGED FOR 0.295, DIMENSION 30° CHANGED FOR 30.4°, MATERIAL WAS 6061 CLEAR ANODIZE IS 6061/7075 RED ANODIZE MATERIAL WAS 6061 CLEAR ANODIZE IS 6061/7075 RED ANODIZE ITEM -6 MATERIAL WAS 4140 Q&T/4142 Q&T CAD PLATE YELLOW IS 4140(28-32Rc) BLACK OXIDE, DIMENSION .669 +/-.002 CHANGED FOR 0.660 +/-0.002, DIMENSION .502 CHANGED FOR 0.499, ENGRAVING REMOVED, DIMENSION .65 UNDERCUT CHANGED FOR MIN UNDERCUT, THREAD RELIEF ADDED, DIMENSION .228 CHANGED FOR 0.23, DIMENSION .193 CHANGED FOR 0.505 FROM THE TANGENT POINT OF THE SHAFT, 0.02 X 45° CMF 2 PL ADDED, CENTER DRILL ACCEPTABLE NOTE ADDED THEM -7 MATERIAL 4140 Q&T/4142 Q&T CAD PLATE YELLOW CHANGED FOR 4140 (28-32 RC) ZINC PLATE TYPE 2 CLASS 2, DIMENSION 674 +/- .002 CHANGED FOR 0.670, ALL CHAMFER REPLACED BY 0.08 X 45° CMF 4 PL ITEM -8 MATERIAL 4140 Q&T/4142 Q&T CAD PLATE YELLOW CHANGED FOR 4140 (28-32 RC) ZINC PLATE TYPE 2 CLASS 2, DIMENSION .21 CHANGED FOR 0.210, DIMENSION .16 CHANGED FOR 0.157, DIMENSION 45° CHANGED FOR 45.0°, R0.03 ADDED, CENTER DRILL NOTE ADDED RBW6405G04132-3G T/R DUPLEX BEARING INSTALLATION REV. DESCRIPTION BY ECN# 1) MATERIAL: N/A 2) HEAT TREAT: N/A **DESIGN** VM DART AEROSPACE LTD 3) FINISH: N/A DRAWN VM: HAWKESBURY, ONTARIO, CANADA 4) TOLERANCES: X.X = +/- 0.1" / +/- 1° TOOL PART # CHECKED VM X.XX = +/-0.01" / +/-0.5° REV. E RBW6405G04132-3G X.XXX = +/-0.005" / +/-0.1 MFG. APPR. SHEET 1 OF 9 X.XXXX = +/-0.0005" / +/-0.05° **APPROVED** SCALE PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005" T/R DUPLEX BEARING INSTALLATION NTS 5) UNITS: INCHES UNLESS OTHERWISE NOTED 6) IDENTIFICATION: N/A **COPYRIGHT © 2019 BY DART AEROSPACE LTD** DATE 3/1/2019 7) THE TOOL ASSY MUST BE PACKAGED WITH A DESICCANT BAG INTO A TIGHT FITTING SEALED PLASTIC BAG THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

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ITEM#	QTY	PART # PART TITLE	
-2	1	RBW6405G04132-3G-2	HUB
-3	1	RBW6405G04132-3G-3	SOCKET HEAD CAP SCREW MODIFIED
9	2	McMaster#97395A474 OR EQUIV	SS316 DOWEL PIN 3/16" DIA. x 1-1/8" LG.
10	1	McMaster#91732A232 OR FOULV	SS HELICAL INSERT 1/4"-28 X 3/8" LG

(10)



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- NOTES: 1) MATERIAL: N/A 2) HEAT TREAT: N/A 3) FINISH: N/A
- 4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
- 4) IULERANCES: X.X = +/- 0.1" / +/- 1"

 X.XX = +/- 0.01" / +/- 0.5"

 X.XXX = +/- 0.005" / +/- 0.1"

 X.XXXX = +/- 0.005" / +/- 0.05"

 X.XXXX = +/- 0.0005" / +/- 0.05"

 PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"

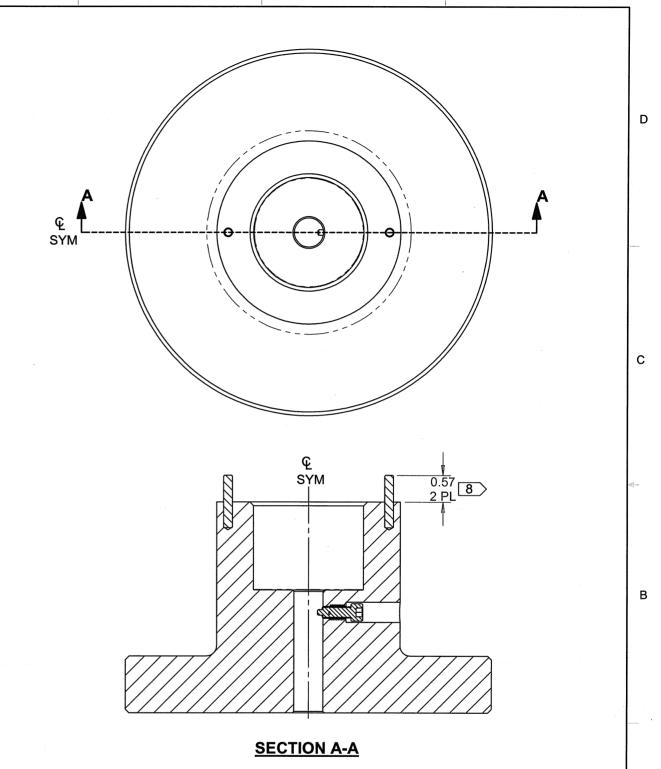
 5) UNITS: INCHES UNLESS OTHERWISE NOTED

 6) IDENTIFICATION: N/A

 7) ASSEMBLE AS SHOWIN

- 7) ASSEMBLE AS SHOWN

- 8) APPLY RETAINING COMPOUND LOCTITE 620 OR EQUIVALENT ON MATING SURFACES
 THEN PRESS FIT ITEMS 9 WITH ITEM -2, AND REMOVE EXCESS
 9) APPLY NICKEL ANTI-SEIZE LOCTITE LB 771 ON THREADS OF ITEM -3 THEN ASSEMBLE WITH ITEMS 10 AND -2, AND REMOVE EXCESS



DESIGN VM		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWN VM					
CHECKED	VM	TOOL PART #	REV. E		
MFG. APPR.	,RQ	RBW6405G04132-3G	SH	EET 2 OF 9	
APPROVED	VIY	TITLE S T/R DUPLEX BEARING INSTALLATION	CALE NTS	D	
DATE 3/1/2	019	COPYRIGHT © 2019 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.			

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